IN THE UNITED STATES PATENT AND TRADEMARK OFFICE BOARD OF PATENT APPEALS AND INTERFERENCES

<u>In re Application of</u>: Robert E. Arbogast et al. <u>Confirm. No.</u>: 4457

<u>Application No.</u>: 09/893,535 <u>Examiner</u>: Dilek B.

Cobanoglu

OHI 1717-008A

Filing Date: 06/29/2001 Art Unit: 3626

<u>Title</u>: System, Method, And

Computer Program Product

For Configuring And Purchasing A Medical

Device

Commissioner for Patents P.O. Box 1450

Alexandria, VA 22313-1450

CERTIFICATE OF TRANSMISSION UNDER 37 CFR §1.8 (a)

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/Vickie D'Alessandro/ Vickie D'Alessandro (paralegal)

<u>Attorney</u>

Docket No.:

<u>APPELLANTS REPLY BRIEF UNDER 37 CFR § 41.41</u>

Dear Sir:

The following remarks are in response to the Examiner's Answer mailed on September 24, 2007. Appellants respectfully request that the Board consider the following remarks prior to ruling on the present appeal.

App. No.: 09/893,535 Inventor: Arbogast et al. Examiner: Dilek B. Cobanoglu

REMARKS/ARGUMENTS

As explained many times during examination of the present application, the

present invention (and the claimed subject matter) is directed to an automated system

and method of configuring a multi-component medical device, such as a prosthesis,

from a collection of individual medical device components. More specifically, based on

one or a few criteria (typically patient attributes and/or desires), a system and method of

the present invention can query one or more databases containing various medical

device components, sort through the large number of available components for each

component type of interest, (e.g., prosthetic sockets, prosthetic knee joints, prosthetic

ankles, etc.), analyze the multitude of potential component combinations, and provide

one or a number of acceptable prosthesis assemblies using various combinations of

qualifying components of each component type. Such criteria may include, for example,

patient weight, patient activity level, medical device cost, or medical device weight.

Thus, a system and method of the present invention can greatly reduce the time

required to configure a medical device comprising a plurality of individual components –

a laborious process that would otherwise have to be performed manually by a

practitioner.

As also explained many times during examination of the present application,

Clynch (US 6,463,351) does not teach or suggest such a system or method. Rather,

Clynch teaches a system and method for manufacturing a particular type of medical

device component - a limb interface. More specifically, Clynch teaches a system and

method by which a body part can be scanned and digitized so as to permit the

App. No.: 09/893,535 Inventor: Arbogast et al.

Examiner: Dilek B. Cobanoglu

decentralized manufacturing of a custom limb interface. Such an interface may be, for

example, a prosthetic socket or a rigid limb-abutting member of an orthotic brace.

However, Clynch is concerned *only* with the manufacture of such specific components,

which components account for only a portion of the overall prosthetic, orthotic or other

device into which they are assembled. Clynch teaches nothing about configuring or

assembling the remainder of the prosthetic, orthotic or other device that will make use of

such a component. According to Clynch, the remainder of the configuration process

would still need to be performed manually – which is exactly what the present invention

seeks to overcome. Therefore, Clynch simply cannot be held to teach or suggest a

system and method of the present invention, wherein all the components necessary to

form a prosthetic, orthotic or other medical device may be automatically considered,

evaluated, selected and assembled into one or more *complete* medical devices.

Specific Claim Rejections

As stated in its Appeal Brief, and throughout the prosecution of the present

application, Appellants have repeatedly failed to find support for the Examiner's

arguments at the cited sections of Clynch. The Examiner has not addressed

Appellants' remarks or requests for clarification in this regard. Rather, the Examiner

has simply repeated the citations and rejections in subsequent office actions. As the

general and substantial differences between Clynch and the present invention have

been clearly pointed out above and in previous communications, Appellants' comments

below in regard to the Examiner's specific claim rejections will focus on the evident lack

of disclosure of the claimed subject matter in those sections of Clynch cited by the Examiner for such purposes.

Rejection of Claims 31-37, 39, 46-48, 65-67 and 82 Under 35 U.S.C. § 102(e)

The Examiner rejected claims 31-37, 39, 46-48, 65-67 and 82 under 35 U.S.C. § 102(e) as being anticipated by Clynch. Appellants respectfully maintain that said claims are allowable over Clynch.

Claim 31

The Examiner asserts that the subject matter of claim 31 that reads populating a digital repository with information corresponding to a plurality of medical device components

is taught by Clynch at col. 4, II. 49-53 and col. 7, I. 61 to col. 8, I. 10.1 thereof. However, Clynch at col. 4, II. 49-53 merely recites

The scan facility 12 is equipped with equipment for capturing a three dimensional optical image of a target surface, in converting the image into a digitized data file which provides data that may be displayed and manipulated on a computer workstation.

Clynch at col. 7, l. 61 to col. 8, l. 10 merely recites

Each of these default modifications are stored in a database of imperically derived data based on prior successful medical devices. When a default modification is selected, the shape and location of the modification is displayed on the image and updated on the pull down

¹ While the Examiner's Answer recites "... to col. 18, line 10", it is assumed that the Examiner meant column 8, as there is no column 18.

Reply Brief Dated: 11/26/2007

Title: System, Method, And Computer Program Product For Configuring And Purchasing A Medical Device App. No.: 09/893,535 Inventor: Arbogast et al.

Examiner: Dilek B. Cobanoglu

modification menu 62. Factors such as the regional shape, blending

shape, operation and shift direction may be controlled using radio

buttons. The vertical and horizontal blending range are also controllable

using virtual dial wheels 66, 68 and the depth of the modification can be

adjusted using a virtual dial wheel 70 in order to ensure that the

modification conforms to the requirements of the patient. In addition, the

size and shape of the modification can be manipulated using the

computer's mouse by dragging coloured symbols indicating the borders

of the region within which the modification will take place, the

application area and the horizontal and vertical blending ranges

surrounding the modification site.

Neither of these cited sections of Clynch teach or suggest populating a digital

repository with information corresponding to a plurality of *medical device components*.

Clearly, the first of the Examiner's citations teaches only that a target surface can be

scanned and converted into a 3-D model (data file). There is no teaching or suggestion

of the claimed subject matter against which the cited section of Clynch is asserted.

Further, from a reading of Clynch at col. 7, II. 14-59, it can be understood that the

default modifications recited in the Examiner's second citation are default CAD software

modifications that may be selected by a user when manipulating a scanned body part

image. The stored default modifications have nothing to do with medical device

components, and certainly not to a digital repository of such components.

The Examiner asserts that the subject matter of claim 31 that reads

Reply Brief Dated: 11/26/2007

Title: System, Method, And Computer Program Product

For Configuring And Purchasing A Medical Device

App. No.: 09/893,535 Inventor: Arbogast et al.

Examiner: Dilek B. Cobanoglu

interviewing a patient having a need for a medical device to determine

at least one patient attribute

is taught by Clynch at col. 5, II. 1-6. However, Clynch at col. 5, II. 1-6 merely recites

In accordance with the method, the process of constructing a medical

device begins in a physician's clinic 10 where in a step 20, a modelling

material is fitted to the body part of a patient requiring a medical device.

As described above, the medical device may be a prosthetic, orthotic,

radiological or any other anthropometric precision fit device.

This section of Clynch clearly fails to teach or suggest interviewing a patient

having a need for a medical device to determine at least one patient attribute. In fact,

there is absolutely no mention of any interviewing or questioning of the patient, or of any

dialogue whatsoever between the physician and patient, in this section of Clynch. If the

Examiner assumes such an interview to be inherent to every doctor/patient meeting, or

that such an interview would be obvious, Appellants' assert that any such assumption is

wholly improper and unsupported.

The Examiner asserts that the subject matter of claim 31 that reads

storing the at least one patient attribute in a memory

is taught by Clynch at col. 6, II. 36-40 and col. 9, II. 7-12 thereof. However, Clynch at

col. 6, II. 36-40 merely recites

FIG. 2 shows the preferred arrangement of facilities for manufacturing

medical devices using the method in accordance with the invention. A

Reply Brief Dated: 11/26/2007

Title: System, Method, And Computer Program Product

For Configuring And Purchasing A Medical Device

App. No.: 09/893,535 Inventor: Arbogast et al. Examiner: Dilek B. Cobanoglu

plurality of clinics 10 are served by one or more scan facilities 12 which

are in turn served by one or more manufacturing facilities 14.

Clynch at col. 9, II. 7-12 merely recites

The present invention provides a method for decentralizing most of the

process of producing medical devices so that the majority of the work

involved in the process of obtaining a modified digital image of the

affected body part can be accomplished in a local physician's clinic to

which the patient has ready access.

Appellants contend that neither of these cited sections of Clynch teach or

suggest storing at least one patient attribute in a memory. These sections of Clynch

simply teach that various clinics, scan facilities and manufacturing facilities may be in

electronic communication so as to transmit data regarding a body part of interest

therebetween. Neither of the cited sections, nor the drawing figure (Figure 2) referred to

therein, mentions or depicts the storage of anything in memory. Nor is there any

mention of a patient attribute.

The Examiner asserts that the subject matter of claim 31 that reads

querying the digital repository for a subset of medical device

components based on the at least one patient attribute, the subset of

medical device components collectively forming a medical device

meeting the need of the patient.

is taught by Clynch at col. 7, II. 22-44 and 61-65, and col. 4, II. 14-39 thereof. However,

Clynch at col. 7, II. 22-44 merely recites

App. No.: 09/893,535 Inventor: Arbogast et al.

Examiner: Dilek B. Cobanoglu For Configuring And Purchasing A Medical Device

The digitized scanned image 60 of the model is displayed in a window on the left hand side of the monitor. The modeled image shown is that of a below knee amputation, but any body portion may be imaged. including a foot, knee, leg, hip, back, shoulder, torso, arm, hand, neck or head for example. A pull down menu 62 is displayed in a window adjacent the scanned image. The pull down menu 62 includes the default options for modifying the scanned image to produce a mold to be used in the manufacture of the medical device or to produce a medical device directly from the modified image. The list of default modifications is available on a scrolling sub-menu 64. The options on the scrolling sub-menu depend on the type of medical device to be produced. Regardless of the type of device, a "uniform shrink" and a "smooth" option are available to permit the image to be uniformly shrunk in order to compensate for the thickness of the model and yield an accurately dimensioned image representative of the body part for which the device is to be produced. The smooth option converts the surface of the modified image into a smooth surface having the appearance of the mold that will be produced from the machine code generated from the modified image. Other options on the modification menu, as noted above, are device dependent.

Clynch at col. 7, II. 61-65 merely recites

App. No.: 09/893,535 Inventor: Arbogast et al.

Examiner: Dilek B. Cobanoglu

Each of these default modifications are stored in a database of

imperically derived data based on prior successful medical devices.

When a default modification is selected, the shape and location of the

modification is displayed on the image and updated on the pull down

modification menu 62.

Clynch at col. 4, II. 14-39 merely recites

The physicians may be prosthetists, orthopedic surgeons, podiatrists,

radiologists or plastic surgeons and other professionals may be

industrial designers of custom protective gear, sports gear, or

equipment for handicapped individuals. Each of these professionals at

least periodically require or can benefit from the practice of the method

in accordance with the invention. The prosthetists practice the invention

to provide prosthetic devices such as artificial limbs. Orthopedic

surgeons, orthotists, and podiatrists may practice the invention to

provide orthotic devices such as braces and/or supports for weak or

ineffective joints or muscles, including compression garmets to correct

skeletal disorders such as scaliosis. Radiologists may practice the

invention to provide locators and/or stabilizers for positioning patients

requiring radiotherapy to ensure that patients are immobilized during a

radiotherapy treatment and to ensure that radiation is accurately

focused on the target tissue. Plastic surgeons may use the invention for

designing implants and/or tracking and documenting the effects of

Reply Brief Dated: 11/26/2007

Title: System, Method, And Computer Program Product For Configuring And Purchasing A Medical Device Inventor: Arbogast et al. Examiner: Dilek B. Cobanoglu

App. No.: 09/893,535

plastic surgery. The industrial designers may practice the invention for

any anthropometric application, including the production of precision fit

coverings to support or protect the human anatomy, such as custom

seats for wheelchairs, etc. and protective or performance enhancing

gear for sport or occupational activities including clothing, footwear,

helmets or body armor and the like.

There is absolutely no mention of a subset of medical device components, a

digital repository of medical device components, or querying a digital repository for a

subset of medical device components in col. 7, II. 22-44 or 61-65 of Clynch. Rather,

these sections of Clynch describe nothing more than digital image manipulation. (See

also Fig. 3, referred to therein). Everything described in these sections of Clynch, and

shown in Fig. 3, is related to a practitioner manipulating the digital image of the cast

body part to produce areas of relief or build-up in the subsequently manufactured

interface component. The referenced shrink and smooth operations, as well as the

database storage of default modifications (i.e., pre-defined image changes), are all

functions of software image manipulation. Even the language of lines 47-52 refers to

modifications that may be made to the digital image of a body part in order to produce

specific modifications to the finished interface component in the stated areas - not to

medical device components. There is absolutely no discussion of medical device

components, of a digital repository, or of the querying thereof. Also, there can be no

subset of medical device components because Clynch is concerned only with a single

component of a medical device. The database referred to in these sections stores only

Reply Brief Dated: 11/26/2007

Title: System, Method, And Computer Program Product

For Configuring And Purchasing A Medical Device

App. No.: 09/893,535 Inventor: Arbogast et al. Examiner: Dilek B. Cobanoglu

information on previous changes made to similar digital body part (model) images, not

information on medical devices. The disclosure of col. 4, II. 14-39 also fails to teach the

claimed subject matter against which said disclosure is cited. Rather, col. 4, II. 14-39 of

Clynch simply recites possible users and uses of the invention.

Claim 35

The Examiner asserts that the subject matter of dependent claim 35 that reads

The method of Claim 34, wherein the ranking criteria is at least one of a

weight of the medical device, a height of the medical device, a width of

the medical device, a cost of the medical device, an activity level

supported by the medical device, and an inventory status of the medical

device.

is taught by Clynch at col. 7, II. 34-44. However, Clynch at col. 7, II. 34-44 merely

recites

Regardless of the type of device, a "uniform shrink" and a "smooth"

option are available to permit the image to be uniformly shrunk in order

to compensate for the thickness of the model and yield an accurately

dimensioned image representative of the body part for which the device

is to be produced. The smooth option converts the surface of the

modified image into a smooth surface having the appearance of the

mold that will be produced from the machine code generated from the

modified image. Other options on the modification menu, as noted

above, are device dependent.

Reply Brief Dated: 11/26/2007

Title: System, Method, And Computer Program Product

For Configuring And Purchasing A Medical Device

App. No.: 09/893,535

Inventor: Arbogast et al.

Examiner: Dilek B. Cobanoglu

Again, this section of Clynch wholly fails to teach or suggest the claimed subject

matter against which it is asserted. There is absolutely no mention of ranking criteria of

any kind. Furthermore, there is also no reference whatsoever in Clynch to the weight,

height or width of a medical device, or to the activity level of an amputee that will use

the medical device.

Claim 46

The Examiner asserts that the subject matter of claim 46 that reads

means for populating a digital repository with information corresponding

to a plurality of medical device components

is taught by Clynch at col. 4, II. 49-53, col. 7, II. 61-63, and col. 4, II. 14-39 thereof.

See above comments regarding claim 31.

The Examiner asserts that the subject matter of claim 46 that reads

means for interviewing a patient having a need for a medical device to

determine at least one patient attribute

is taught by Clynch at col. 5, Il. 1-6.

See above comments regarding claim 31.

The Examiner asserts that the subject matter of claim 46 that reads

means for storing the at least one patient attribute in a memory

is taught by Clynch at col. 6, Il. 36-40 and 50-54 thereof.

See above comments regarding claim 31.

Reply Brief Dated: 11/26/2007

Title: System, Method, And Computer Program Product

Examiner: Dilek B. Cobanoglu For Configuring And Purchasing A Medical Device

App. No.: 09/893,535

Inventor: Arbogast et al.

The Examiner asserts that the subject matter of claim 46 that reads

means for querying the digital repository for a subset of medical device

components based on the at least one patient attribute, the subset of

medical device components collectively forming a medical device

meeting the need of the patient.

is taught by Clynch at col. 7, II. 22-44 and 61-65, and col. 4, II. 14-39 thereof.

See above comments regarding claim 31.

Claim 65

The Examiner asserts that the subject matter of claim 65 that reads

populating a digital repository with information corresponding to a

plurality of individual medical device components

is taught by Clynch at col. 4, II. 49-53, col. 7, II. 61-63, and col. 4, II. 14-39 thereof.

See above comments regarding claim 31.

The Examiner asserts that the subject matter of claim 65 that reads

populating a digital repository with patient historical information

associated with a patient

is taught by Clynch at col. 9, II. 7-12 thereof. However, Clynch at col. 9, II. 7-12 merely

recites

The present invention provides a method for decentralizing most of the

process of producing medical devices so that the majority of the work

involved in the process of obtaining a modified digital image of the

Reply Brief Dated: 11/26/2007

Title: System, Method, And Computer Program Product

For Configuring And Purchasing A Medical Device

App. No.: 09/893,535 Inventor: Arbogast et al. Examiner: Dilek B. Cobanoglu

affected body part can be accomplished in a local physician's clinic to

which the patient has ready access.

This section of Clynch in no way teaches or suggests a digital repository,

populating a digital repository, or the use of patient historical information. Rather, this

section of Clynch merely teaches that manufacturing operations associated with a

medical device component can be located in specialized facilities remote from a

physician's clinic. This has nothing to do with a digital repository or populating a digital

repository, and certainly does not teach the use of patient historical information.

The Examiner asserts that the subject matter of claim 65 that reads

interviewing the patient having a need for a medical device to determine

at least one patient attribute

is taught by Clynch at col. 5, Il. 1-6.

See above comments regarding claim 31.

The Examiner asserts that the subject matter of claim 65 that reads

storing the at least one patient attribute in a memory via a digital

communication link

is taught by Clynch at col. 6, II. 36-43 thereof.

See above comments regarding claim 31.

The Examiner asserts that the subject matter of claim 65 that reads

querying the digital repository for a subset of medical device

components based on the at least one patient attribute, the subset of

Reply Brief Dated: 11/26/2007

Title: System, Method, And Computer Program Product

For Configuring And Purchasing A Medical Device

App. No.: 09/893,535 Inventor: Arbogast et al.

Examiner: Dilek B. Cobanoglu

medical device components collectively forming a medical device

meeting the need of the patient.

is taught by Clynch at col. 7, II. 22-44 and 61-65, and col. 4, II. 14-39 thereof.

See above comments regarding claim 31.

• The Examiner asserts that the subject matter of claim 65 that reads

ordering the medical device over the digital communication link

is taught by Clynch at col. 3, II. 12-14 thereof. However, Clynch at col. 3, II. 12-14

merely recites

The three dimensional image is thereafter preferably downloaded to a

computer system of the physician which produced the model.

This section of Clynch is wholly unrelated to the claimed subject matter against

which it is asserted. Rather, this section of Clynch merely teaches that the three

dimensional image created by a scanning facility from a cast model of a body part is

sent to the computer system of the practitioner that cast the body part. This disclosure

has nothing whatsoever to do with ordering a medical device. In fact, Clynch cannot

teach ordering a medical device because the system and method of Clynch can be

used to produce only one component thereof. As such, a practitioner is left to configure

and order the remainder of a prosthetic device by other means.

The Examiner asserts that the subject matter of claim 65 that reads

storing information corresponding to the medical device in the digital

repository associated with the patient

is taught by Clynch at col. 6, Il. 36-40 and col. 9, Il. 7-12 thereof.

Reply Brief Dated: 11/26/2007

Title: System, Method, And Computer Program Product

For Configuring And Purchasing A Medical Device

See above comments regarding claim 31.

As can be understood from the foregoing, Clynch fails to teach at least several

App. No.: 09/893,535

Inventor: Arbogast et al.

Examiner: Dilek B. Cobanoglu

elements of each of the rejected claims. Consequently, Appellants once again

respectfully submit that Clynch cannot support a rejection of claims 31-37, 39, 46-48,

65-67 and 82 under 35 U.S.C. § 102(e).

Rejection of Claims 1-5, 8-14, 16, 19, 20, 22-30 and 80-81 35 U.S.C. § 103(a)

The Examiner rejected claims 1-5, 8-14, 16, 19, 20, 22-30 and 80-81 under 35 U.S.C. §

103(a) as being unpatentable over Clynch in view of DeBusk et al. (US 6,581,204).

Appellants respectfully maintain that said claims are allowable over this combination of

references cited as prior art by the Examiner.

Claim 1

The Examiner asserts that the subject matter of claim 1 that reads

a digital repository populated with entries defining a plurality of medical

device components, each entry associated with an individual medical

device component and having at least one patient attribute indicator

is taught by Clynch at col. 4, II. 49-53 and col. 7, I. 61 to col. 8, I. 10 thereof.

See above comments regarding claim 31.

The Examiner asserts that the subject matter of claim 1 that reads

a practitioner user interface mechanism configured to provide a

practitioner with access to entries in the digital repository via a network

Reply Brief Dated: 11/26/2007

Title: System, Method, And Computer Program Product

For Configuring And Purchasing A Medical Device

App. No.: 09/893,535 Inventor: Arbogast et al. Examiner: Dilek B. Cobanoglu

answer indicator

is taught by Clynch at col. 5, II. 1-6 and col. 6, II. 40-43. However, Clynch at col. 5, II. 1-

and to allow the practitioner to provide at least one patient interview

6 merely recites

In accordance with the method, the process of constructing a medical

device begins in a physician's clinic 10 where in a step 20, a modelling

material is fitted to the body part of a patient requiring a medical device.

As described above, the medical device may be a prosthetic, orthotic,

radiological or any other anthropometric precision fit device.

Clynch at col. col. 6, II. 40-43 merely recites

The clinics 10 preferably communicate with the scan facilities using a

telecommunications service such as the Internet, graphically illustrated

and indicated by reference 46.

This section of Clynch clearly fails to teach or suggest a practitioner user

interface mechanism configured to provide a practitioner with access to entries in a

digital repository. In fact, there is absolutely no mention of a digital repository (or any

type of repository), or any means by which such a repository may be accessed.

Furthermore, and as discussed above, there is no disclosure in Clynch of any

interviewing or questioning of the patient, or of any dialogue whatsoever between the

physician and patient. Consequently, there can be no teaching or suggestion of

allowing a practitioner to provide at least one patient interview answer indicator via said

practitioner user interface mechanism.

Reply Brief Dated: 11/26/2007

Title: System, Method, And Computer Program Product For Configuring And Purchasing A Medical Device Inventor: Arbogast et al. Examiner: Dilek B. Cobanoglu

App. No.: 09/893,535

• The Examiner asserts that the subject matter of claim 1 that reads

a patient interview mechanism configured to receive over the network

the at least one patient interview answer indicator corresponding to an

attribute of a patient and to store the at least one patient interview

answer indicator in a memory

is taught by Clynch at col. 5, Il. 1-6 thereof.

See preceding comment regarding claim 1, as well as above comments

regarding claim 31.

The Examiner asserts that the subject matter of <u>claim 1</u> that reads

a configurator mechanism configured to select a subset of entries from

the digital repository based on the at least one patient interview answer

indicator in the memory, the subset of entries including entries

corresponding to individual medical device components that collectively

form a medical device meeting a need of the patient.

is taught by Clynch at col. 7, Il. 22-44 and 61-65 thereof.

See above comments regarding claim 31.

As DeBusk et al. appears to be nothing more than an advanced medical supply

inventory tracking and management system and, as the Examiner appears to have cited

DeBusk et al. only for its asserted disclosure of a component identification indicator,

Clynch in view of DeBusk et al. still fails to teach or suggest at least the following

elements of claim 1:

Reply Brief Dated: 11/26/2007

Title: System, Method, And Computer Program Product

For Configuring And Purchasing A Medical Device

App. No.: 09/893,535 Inventor: Arbogast et al.

Examiner: Dilek B. Cobanoglu

(1) a digital repository populated with entries defining a plurality of medical device

components, the entries each associated with an *individual* medical device component;

(2) at least one *patient attribute indicator* associated with the entries;

(3) a practitioner user interface mechanism configured to provide a practitioner

with access to entries in the digital repository via a network and to allow the practitioner

to provide at least one *patient interview answer indicator*;

(4) a patient interview mechanism configured to receive over the network the at

least one patient interview answer indicator corresponding to an attribute of a patient

and to store the at least one patient interview answer indicator in a memory; and

(5) a configurator mechanism configured to select a subset of entries from the

digital repository based on the at least one patient interview answer indicator in the

memory, the subset of entries including entries corresponding to individual medical

device components that collectively form a medical device meeting a need of the

patient.

As can be understood from the foregoing, Clynch in view of Debusk et al. fails to

teach at least several elements of each of the rejected claims. Consequently.

Appellants once again respectfully submit that Clynch in view of Debusk et al. cannot

support a rejection of claims 1-5, 8-14, 16, 19, 20, 22-30 and 80-81 under 35 U.S.C. §

103(a).

CONCLUSION

For at least the foregoing reasons, it is submitted that the Examiner's continued

rejection of claims 1-39, 46-49, 65-69 and 80-82 is unsupported by the cited references.

Reply Brief Dated: 11/26/2007

Title: System, Method, And Computer Program Product For Configuring And Purchasing A Medical Device App. No.: 09/893,535 Inventor: Arbogast et al. Examiner: Dilek B. Cobanoglu

As such, Appellants' respectfully request reversal of the Examiner's rejection of claims 1-39, 46-49, 65-69 and 80-82 and allowance of the present application.

Respectfully submitted,

Date: <u>11-26-2007</u> By: <u>/Eric M. Gayan/</u>

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